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November 14, 2002

CERTIFIED RETURN RECEIPT 7099 3400 0016 8895 4746

www.nr.utah.gov

Dennis Williams Worthen/Williams LLC. Utah Refractories Corporation 2200 North 1100 West Lehi. Utah 84043

Re: Five-Year Review of Reclamation Surety Estimate, Worthen/Williams LLC, Roudabush

#1 Mine, M/045/027, Tooele County. Utah

Dear Mr. Williams:

Thank you for providing the requested information regarding the five-year review status of your Roudabush #1 Mine, located in Tooele County, Utah. The last surety estimate for this mine was \$72,500 in 1999 dollars. After a review of the information furnished by Worthen/Williams LLC and a site visit to verify the site conditions, we find we only need to escalate the present bond for a five-year period. This is based upon the fact that there had been no changes at the site since the last bond calculation.

The surety for the Roudabush #1 Mine escalated to the year 2007 is \$97,800. A Surety Estimate Update is attached for your use. Please provide the updated surety within 60 days or no later than January 13, 2003.

You may provide an amendment to the existing Letter of Credit, and no other paperwork will be necessary. However, if you choose to post another form of surety, please contact Joelle Burns at (801) 538-5291 to obtain the current bonding forms or you may access the current forms on the internet at www.nr.utah.gov. If you post another form of surety, we will require that you also replace the Reclamation Contract, which is also located on the web. <a href="Please fax a "draft" copy of the documents so we can review them for completeness and accuracy before they are finalized."



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If you are unable to provide the surety within this timeframe, please contact the Division with justification for requesting additional time. Thank you for your help in keeping the surety current. If you have any questions concerning this letter, please contact Doug Jensen at (801) 538-5382.

Sincerely,

D. Wayne Hedberg Permit Supervisor

Minerals Regulatory Program

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Attachment Surety estimate update cc. Doug Jensen, DOGM

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SURETY ESTIMATE UPDATE

Worthen/Williams LLC

FILE # M/045/027 Too

Tooele County

Prepared by Utah Division of Oil, Gas & Mining

Last Update

1999

13-Nov-02

DESCRIPTION:

Roudabush Mine

- -Previous reclamation surety estimate was \$72,500 in year 1999 dollars
- -Reclamation Estimate base amount calculated in 1994-\$

Reclamation Plan Details

- -Bench highwall; ASSUME: 20 ft wide bench every 25 ft, 600 lf, 3 benches total
- -Rip all compacted areas to be revegetated
- -Distribute fines over quarry floor; fines estimated at 7% annual production
- -Restore channel & riprap; ASSUME 500 If, 6" of riprap
- -Spread existing topsoil stockpiles (estimated volume = 300 cy)
- -Revegetation = fertilizing, mulching & seeding (previous estimate was \$468/acre)
- -Fertilizer = diammonium Phosphate @ 200 lbs/acre
- -Mulch = hay mulch @ 2 tons/acre
- -Mobilization (third party reclamation)
- -Disturbed area = Present quarry (2.3)+ future quarry (18.9) + stockpile area (4.4) + staging area (2.2) staging area (2.2) + corase stockpile (0.3) + access road (0.9)
- -Escalation factors through 2002 are actual Means Historical Cost Indices
- -Total disturbed area =

29 ACRES

	ESCAL	BOND	
YR	FACTOR	AMOUNT	
1991	0.0127	\$0.00	
1992	0.0221	\$0.00	
1993	0.0261	\$0.00	
1994	0.0321	\$67,547 00	
1995	0 0193	\$68,850.66	
1996	0 0242	\$70,516 84	
1997	0.0236	\$72,181 04	
1998	0.0502	\$75,804 53	
1999	0.0191	\$77,252.40	
2000	0.0244	\$79,137.35	
2001	0.0460	\$82,777 67	
2002	0 0282	\$85,112.00	
2003	0.0282	\$87,512.16	
2004	0 0282	\$89,980.00	
2005	0.0282	\$92,517 44	
2006	0.0282	\$95,126 43	
2007	0.0282	\$97,809.00	
ed (2007-\$)		\$97,800.00	
	1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	YR FACTOR 1991 0.0127 1992 0.0221 1993 0.0261 1994 0.0321 1995 0 0193 1996 0 0242 1997 0.0236 1998 0.0502 1999 0.0191 2000 0.0244 2001 0.0460 2002 0 0282 2003 0.0282 2004 0 0282 2005 0.0282 2006 0.0282 2007 0.0282	YR FACTOR AMOUNT 1991 0.0127 \$0.00 1992 0.0221 \$0.00 1993 0.0261 \$0.00 1994 0.0321 \$67,547 00 1995 0 0193 \$68,850.66 1996 0 0242 \$70,516 84 1997 0.0236 \$72,181 04 1998 0.0502 \$75,804 53 1999 0.0191 \$77,252.40 2000 0.0244 \$79,137.35 2001 0.0460 \$82,777 67 2002 0 0282 \$85,112.00 2003 0.0282 \$87,512.16 2004 0 0282 \$89,980.00 2005 0.0282 \$95,126 43 2007 0.0282 \$97,809.00

^{**} Average cost per acre =

3373 (\$/ACRE)